

IN THE CLAIMS

Please add new claims 6-10.

--6. (New) A radio transmission method, comprising the steps of:

generating data added with one of a first error detecting code and a first error correcting code in communication stations;

generating a header field indicating a control of said data, wherein said header field is independently added with one of a second error detecting code and a second error correcting code, and said header field includes an appended tail bit indicating a termination of said header field;

transmitting a data packet including said data and said header field; and

transmitting a control data packet including said header field.

--7. (New) A radio signal generation method, comprising the steps of:

generating data added with one of a first error detecting code and a first error correcting code in communication stations; and

generating a header field indicating a control of said data, wherein said header field is independently added with one of a second error detecting code and a second error correcting code.

--8. (New) A radio signal generation method, comprising the steps of:

generating data added with one of a first error detecting code and a first error correcting code in communication stations; and

generating a header field indicating a control of said data, wherein said header field is independently added with one of a second error detecting code and a second error correcting code, and said header field includes an appended tail bit indicating a termination of said header field.

--9 (New). A radio transmission method, comprising the steps of:

generating data added with one of a first error detecting code and a first error correcting code in communication stations;

generating a header field indicating a control of said data, wherein said header field is independently added with one of a second error detecting code and a second error correcting code;

transmitting a data packet including said data and said header field; and

transmitting a control data packet including said header field.

--10 (New). A radio transmission device, comprising:

a transmission data processing unit for processing data transmitted between said radio transmission device and another said radio transmission device with a predetermined packet arrangement;

a control unit for adding to said data one of a first predetermined error detecting code and a first predetermined

error correcting code, and adding to a header field one of a second predetermined error detecting code and a second predetermined error correcting code; and

a wireless processing unit for transmitting a data packet including said data and said header field and for transmitting a control data packet including said header field.--